



Problem Description for ONR TechSolutions

TS-00712

Problem:

Currently mass produced tools for exploiting U.S. and foreign ordnance are not available to the EOD tech forward or stateside. This ordnance includes conventional, enemy manufactured, improvised as well as improvised explosive device components. We currently make tools as needed with the quality and speed of the tool dictated by the EOD tech's motivation, imagination, and if there is a fabrication shop near that is willing to dedicate time and material to the effort. Not having a dedicated tool development pipeline deters most EOD Marines from trying, and we use duct tape and pipe wrenches instead to break down ordnance

Description of Warfighter Request:

Ability to laser scan an item in theater then push the data to an embedded or remote engineering staff who designs the tool for you to print in the field.

Need ruggedized, deployable, laser scan and 3D printing devices that can be embarked and operated by EOD techs DOD wide.

Once the tool is vetted, the CAD file can be sent out fleet wide as a solution for anyone else that encounters this ordnance item or type. A library of proven tools could be built and the time from ordnance identification to tool delivery could be hour/days instead of weeks/months. This gets the intel from the ordnance to entities that need it much faster, helping them to analyze the threat in near real time.